ABSTRACT

The present invention is a precious metal-based amorphous alloy having a Pt-Cu-P based structure including in atomic %: 50≤Pt≤75%, 5≤Cu≤35%, and 15≤P≤25% and is a precious metal-based amorphous alloy having a Pt-Pd-Cu-P based structure including in atomic %: 5≤Pt≤70%, 5≤Pd≤50%, 5≤Cu≤50%, and 5≤P≤30%. Preferably, cooling rates for manufacturing the alloys having these compositions are 10⁻¹ to 10²⁰C/sec. for the Pt-Cu-P based structure and 10¹ to 10²⁰C/sec. for the Pt-Pd-Cu-P based structure.